AMENDMENTS TO THE CLAIMS

1. - 10. (Canceled)

11. (Currently Amended) A process for preparing phthalazines of formula

wherein Py represents a 2, 3 or 4-pyridinyl group optionally substituted by one or more substituents selected from halogen, nitro, cyano, oxo and carboxy:

R and R1, which may be the same or different between them, represent hydrogen, C_1 - C_6 alkyl or a group OR_2 wherein R_2 represents a linear or branched C_1 - C_6 alkyl, a C_4 - C_7 cycloalkyl or a C_1 - C_6 polyfluoroalkyl;

is a single or double bond;

Y represents two hydrogen atoms or a group =O when $\frac{1}{2}$ is a single bond, or when $\frac{1}{2}$ is a double bond Y is hydrogen, cyano, (C_1-C_4) -alkoxycarbonyl, amido, optionally sustituted aryl or heterocyclyl, (C_1-C_8) -alkyl, (C_1-C_8) -cyclylamino;

W is absent when _____ is a double bond or, when ____ is a single bond, it represents

a) hydrogen;

b) (C_1-C_6) -alkyl optionally substituted by aryl, heterocyclyl or by a group COR_5 wherein R_5 is hydroxy, (C_1-C_4) -alkoxy or hydroxyamino;

c) -COR₆ wherein R₆ is hydrogen, aryl, aryl-(C_1 - C_6)-alkyl, optionally alkylated or monohydroxylated amino, hydroxy, (C_1 - C_4)-alkoxy, carboxy, (C_1 - C_4)-alkoxycarbonyl,

 $HN = \stackrel{!}{C} - NH_2$, or $(C_1 - C_4)$ -alkyl optionally substituted by a heterocycle;

d) (C_1-C_4) -alkylsulfonyl;

which comprises the preparation of the an intermediate of formula I

$$\begin{array}{c}
R \\
O \\
R_1
\end{array}$$
(I)

wherein R, R_1 and Py have the above reported meanings and the bond $\sim\sim$ indicates both the isomers E and Z;

wherein said process comprises reacting a compound of formula II

wherein R and R_1 have the meanings above reported; with an aldehyde of formula Py-CHO (III)

wherein Py has the above reported meaning; by heating of the mixture of the compounds of formula II and III in the presence of an anhydride and optionally in admixture with a suitable solvent, to form the intermediate of formula I and subsequently

reacting the intermediate of formula I with hydrazine monohydrate to form a phthalazine of formula IV.

- 12. (Previously Presented) The process according to claim 11 wherein Py represents a dihalosubstituted 4-pyridinyl group.
- 13. (Previously Presented) The process according to claim 12 wherein Py represents a 3,5-dichloro-4-pyridinyl group.
- 14. (Previously Presented) The process according to claim 11 wherein one or both between R and R₁ represent OCH₃.
- 15. (Previously Presented) The process according to claim 11 wherein the compounds of formula III are employed with respect to the compounds of formula II in a molar ratio from 0.5 to 4.
- 16. (Previously Presented) The process according to claim 15 wherein the compounds of formula III are employed with respect to the compounds of formula II in a molar ratio from 0.8 to 1.5.
- 17. (Currently Amended) A <u>The</u> process according to claim 16 wherein the compounds of formula III are employed with respect to the compounds of formula n in a molar ratio from 0.9 to 1.1.
- 18. (Currently Amended) A <u>The</u> process according to claim 11 wherein the anhydride is an organic anhydride.
- 19. (Currently Amended) A <u>The</u> process according to claim 18 wherein the anhydride is acetic anhydride.
- 20. (Currently Amended) A <u>The</u> process according to claim 11 wherein the anhydride is used in an excess.
 - 21. (New) In a process for preparing phthalazines of formula

and salts thereof from an intermediate of

formula I

wherein Py represents a 2, 3 or 4-pyridinyl group optionally substituted by one or more substituents selected from halogen, nitro, cyano, oxo and carboxy:

R and R1, which may be the same or different between them, represent hydrogen, C_1 - C_6 alkyl or a group OR_2 wherein R_2 represents a linear or branched C_1 - C_6 alkyl, a C_4 - C_7 cycloalkyl or a C_1 - C_6 polyfluoroalkyl;

is a single or double bond;

Y represents two hydrogen atoms or a group =0 when $\frac{1}{2}$ is a single bond, or when $\frac{1}{2}$ is a double bond Y is hydrogen, cyano, (C_1-C_4) -alkoxycarbonyl, amido, optionally sustituted aryl or heterocyclyl, (C_1-C_8) -alkyl, (C_1-C_8) -cyclylamino;

W is absent when ——— is a double bond or, when ——is a single bond, it represents

- a) hydrogen;
- b) (C_1-C_6) -alkyl optionally substituted by aryl, heterocyclyl or by a group COR_5 wherein R_5 is hydroxy, (C_1-C_4) -alkoxy or hydroxyamino;

d) (C_1-C_4) -alkylsulfonyl;

wherein the intermediate of formula I is

$$\begin{array}{c}
R \\
O \\
O \\
PV
\end{array}$$
(I)

wherein R, R_1 and Py have the above reported meanings and the bond $\sim\sim$ indicates both the isomers E and Z;

the improvement comprising making the intermediate of formula I by a process comprising reacting a compound of formula II

wherein R and R_1 have the meanings above reported; with an aldehyde of formula Py-CHO (III)

wherein Py has the above reported meaning; by heating of the mixture of the compounds of formula II and III in the presence of an anhydride and optionally in admixture with a suitable solvent.

- 22. (New) The method according to claim 21 wherein Py represents a dihalosubstituted 4-pyridinyl group.
- 23. (New) The method according to claim 22 wherein Py represents a 3,5-dichloro-4-pyridinyl group.

- 24. (New) The method according to claim 21 wherein one or both between R and R₁ represent OCH₃.
- 25. (New) The method according to claim 21 wherein the compounds of formula III are employed with respect to the compounds of formula II in a molar ratio from 0.5 to 4.
- 26. (New) The method according to claim 25 wherein the compounds of formula III are employed with respect to the compounds of formula II in a molar ratio from 0.8 to 1.5.
- 27. (New) The method according to claim 26 wherein the compounds of formula III are employed with respect to the compounds of formula n in a molar ratio from 0.9 to 1.1.
- 28. (New) The method according to claim 21 wherein the anhydride is an organic anhydride.
- 29. (New) The method according to claim 28 wherein the anhydride is acetic anhydride.
- 30. (New) The method according to claim 21 wherein the anhydride is used in an excess.

SUPPORT FOR THE AMENDMENTS

Claims 11 and 17-20 have been amended.

Claims 21-30 have been added.

The amendment of Claims 11 and 17-20 is supported by the corresponding claims as previously presented, as well as the specification at pages 4-8. New Claims 21-30 are supported by pages 1-8, the Examples, and the originally presented claims.

No new matter has been added by the present amendment.